

Riteks CSE-4

High-Quality Pozzolanic Additive for Concrete

General Description

Riteks CSE-4 is high-reactivity metakaolin pozzolan produced by thermal activation of high purity kaolin clay within a specific temperature range that meets or exceeds all of the specifications of ASTM C-618 Class N pozzolans. Riteks CSE-4 reacts with free lime produced during hydration of cement and produces additional cementitious material.

Unlike other pozzolanic materials, CSE-4 was developed to maintain high reactivity, ultrafine particle size distribution and product consistency.

Applications

Riteks CSE-4 is designed for use in a range of cementitious applications, including: downhole cement, manufactured concrete products (MCP) and plaster. The pozzolanic properties of CSE-4 yield superior strength and durability while simultaneously protecting against chemical attack, specifically efflorescence and Alkali-Silica Reaction (ASR). CSE-4 has good synergy with silica fume, while being used at reduced loading levels to provide high early compressive strength development in low density slurries. Additional benefits include extender properties & free water control.

Loading Levels

Recommended loading levels for CSE-4 are 3-5% bwoc.

Typical Properties

Physical Form: Highly pulverized powder

Special Modifications: Dehydroxylated

GE Brightness (%): 85

Screen Residue, 325 Mesh (%): 0.05

Free Moisture (%), measured at 105°C: 0.5

pH (20% solids): 6

Median Particle Size, Sedigraph (μm): 1.3

Specific Gravity: ~2.2

Absolute Volume: ~0.05447

Bulk Density, Loose lb/ft³ (kg/m³): 16 / 260

Bulk Density, Tamped lb/ft³ (kg/m³): 30 / 480

Typical properties given do not constitute a supply specification

Packaging/Storage

Under dry conditions, powder products remain stable for several years.

Available in 50 lb. net weight multi-wall kraft bags, Supersacks & bulk.

Health and Environmental Data

Before handling or using this product please refer to the Safety Data Sheet for complete health, safety and environmental information.

Dispose of waste in accordance with local, state and federal regulations.

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